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# Using moving grid techniques with flux limiters method to solve some time dependent partial differential equations

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Abstract In this paper, we are concerned with the numerical solution of advection equation. Kuramoto-Sivashimsky equation and Burgers-Huxley equation which involve large solution variation such as moving wave fronts, steep moving fronts, emerging steep layers, pulses, shocks, etc., large gradients or discontinuities which often complicate the numerical solution of this equations on an uniform spatial grid. Those problems have already been solved with moving grid techniques using finite difference approximations. The aim in this paper is to use some flux limiters approximations instead of finite difference, in order to improve numerical solutions. Therefore the moving grids techniques under the numerical method of lines is combined with flux limiters such as Van Leer, Van Albada 1&2, minmod, SMART, Superbee, Sweby, Koren, MC (monotonized central), Ospre and Osher limiter through the ode15s solver of MATLAB in order to eliminate spurious numerical oscillations in the numerical solution. The results are compared with moving grids using finite difference approximations.

Keywords Moving grid method, flux limiters, method of lines, monitor function

#### 1. Introduction

The numerical solutions of time dependent partial differential equations (PDEs) which involve large solution variation, such as moving wave fronts, steep moving fronts, emerging steep layers, pulses, shocks, large gradients or discontinuities often display numerical oscillation. Traditional numerical techniques to solve time dependent partial differential equations (PDEs) integrate on a uniform spatial grid that is kept fixed on the entire time interval. When the solutions have regions of high spatial activity, a standard fixed grid technique is computationally inefficient, since to achieve an accurate numerical approximation, one must use, in general, a very large number of grid points. The grid on which the PDE is discretized then needs to be locally refined. Moreover, if the regions of high spatial activity are moving in time, then techniques are needed to also adapt the grid in time [1].

Since the number of grid points is held fixed throughout the course of computation, problems could arise if several steep fronts would act in different regions of the spatial do-main. For example, the grid is following one wave front, while a second front arises somewhere else. Since no "new" grid is created for the new wave front, the "old" one has to adjust itself abruptly to cope with the newly developed front. Therefore, moving-grid techniques often need additional regularization terms to prevent this from happening or to at least slow down the grid degeneration process. Using this method can save up to several factors in terms of number of spatial grid points, if the mesh is moved properly, i.e., without distortion and well-adapted to the PDE solution. Moving grid techniques have thus been developed under the numerical method of lines [2]. In spite of performance of moving grid method, numerical dissipation is generally observed when solving time dependent PDEs. The main cause of dissipation is low order approximation of the discretization [3]. So, like alternative solution, we will combine the flux, limiters method with moving grids techniques. The main objective is to compare numerical solution

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bei der steuerlichen bewertung von immobilien wird auf drei verfahren zurückgegriffen nämlich auf das sachwertverfahren das ertragswertverfahren oder das see more

#### erbschaftssteuer umgehen 8 tipps beratung de - Apr 17 2022

web immobilien steueroptimiert verschenken amp vererben may 18th 2020 immobilien steueroptimiert verschenken amp vererben erbfolge durch testament regeln amp

## immobilien steueroptimiert verschenken vererben erbfolge - Jan 27 2023

web apr  $25\ 2022$  die immobilienpreise sind in den vergangenen jahren stark gestiegen im erbfall kann deshalb eine erhebliche erbschaftsteuer fällig werden durch eine gute

immobilien steueroptimiert verschenken vererben erbfolge - May 19 2022

web may 3 2022 das gilt bei verkauf vererben oder verschenken für eheleute untereinander Übertragungen an familienangehörige in direkter linie oder deren

#### immobilien steueroptimiert verschenken vererben erbfolge - Jul 21 2022

web immobilien steueroptimiert verschenken vererben erbfolge durch testament regeln steuern sparen mit freibeträgen schenkungen von häusern eigentumswohnungen 2

erbschaftsteuer immobilien berechnen vermeiden gestalten - Dec 26 2022

web immobilien steueroptimiert verschenken vererben jun 18 2023 dieser ratgeber hilft ihnen ihr testament richtig aufzusetzen und die bertragung ihres vermgens auf die